





Dear Customer,

Congratulations on your purchase of this versatile and need oriented suction unit. It will serve you well for years, if properly looked after. It is designed for use in hospitals and nursing homes.

- 1. Non corrosive and shockproof Suction Unit has piston pumps on 220 230 V Motors (180 watts). No lubrication is required and it is not for continuous drainage of body cavities.
- 2. The panel has a vacuum gauge with release valve, 2 safety jars, and an on/off rocker switch. Below the panel is a 2-way changeover lever for collection in one jar at a time.
- 3. The unit is fitted with double overflow preventive devices one in each jar lid and the other away from the lid in the form of safety (trap) jars for each collection jar fitted with electronic sensors which, in the event of fluid entering, strips electric connection, thereby preventing fluid from entering the pump.
- 4. Removable polycarbonate filter on the safety jar entraps the splash droplets and is autoclavable. The replaceable filter element filters the evacuated air before it enters the pumps and thereby infects the environment. The element can be changed after each use and necessarily after infective suction has been done or when it gets wet.
- 5. Additional 2 volt footswitch enables the user to activate and deactivate the pump from a distance. The main switch on the panel must be on the 'On' position.
- 6. Before each use, the required vacuum can be obtained by occluding the patient tube.
- 7. As the flow rate is high, ¾ th filling of the jars is recommended.

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TECHNICAL DATA

Anand's High Vacuum - High Flow Suction Unit

Housing: Plastic moulded cabinet

Capacity: $-700 \text{ mm Hg} \pm 10 \text{ mm}$ regulable, flutter free vacuum control knob, 90 ltrs / min

Pump type: Double piston pump

Jar: 2 x 2.5 ltr. wide mouthed (Polycarbonate) with changeover lever. Provided with handle for hygiene while emptying / cleaning, safety jar with mechanical / electronic overflow motor shut off system and

autoclavable bacterial filter.

Tubing: 10 mm ID x 2 mtr. (PVC)

Vacuum Gauge: Bourden type 6.25 cm dia 0-760 mm Hg calibration.

Power: 220 V, 50 Hz, Single Phase

Noise Level: 60 dB A±3

Dimension & Weight: 46 x 32 x 86 cms, 22 Kg.

Vacuum at Altitudes

The specified maximum vacuum refers to sea level. According to local conditions, and barometric pressure, slight deviations in vacuum reading may be noted. As a reference, the table below shows several factors, by which the indicated maximum vacuum value must be multiplied, according to the altitude of location where the measurement is carried out.

Lo cation / Maximum Vacuum

 Location
 Sea level
 1000m
 2000m
 4000m

 Factor
 1.00
 0.88
 0.78
 0.60

Before the unit is put on please see that:

- 1. 'O' rings on the push-in connector and safety jar legs are not worn out. Both these should be well inserted.
- 2. Jars be checked for any crack, tubing and lids be tightly placed on the jars. The angular connectors must be inserted as far as the stop. While unplugging, twist and pull.
- 3. Adjust vacuum before use. Fully tightened clockwise knob means full vacuum.

CLEANING AND DISINFECTING: After each use, jars, lids, overflow cut off valve, catheters, etc. should be cleaned thoroughly. When cleaning is necessary after infective fluid has been evacuated, the jars, lids and cut off valve can be sterilized by autoclaving upto 120° C for 20 minutes. Alkaline cleaning agents and disinfectants based on phenyel may not be used.

Adherence to hospital directives on hygiene is of prime importance. The instructions provided by the suppliers of cleaning agents as well as by the manufacturers of sterilization and/or disinfection units must also be followed, where application, temperature, process duration and airing, etc. are concerned.

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PUMP

The unit is fitted with double Piston pump.

a) Please run the unit and see its satisfactory functioning before the base with motors is fitted and the back plate is screwed up. Unlike the rotary design, NO LUBRICATION IS REQUIRED IN THIS PUMP.

GUIDELINES

- 1. Before the unit is used, read the Instruction Manual (and keep it handy). Check that the tubes, lids, filter, push-in nozals are tightly placed, vacuum control knob is tight (clockwise) and no tube is kinked.
- 2. Ascertain the flow required: Required vacuum can be obtained by occluding the patient tube and adjusting the vacuum release valve.
- 3. When the level reaches the maximum marked on the jar, redirect the flow to the empty jar with the changeover lever, and switch over the patient tube also.
- 4. Fluid must never enter the pump and no lubrication is required.
- 5. The unit has to be used by trained medical personnel and maintained by Maintenance Engineer.

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TROUBLE SHOOTING:

Problem	Possible source of trouble	Check/Action to be taken	
Motor does Not Run	Power Supply	Voltage, power socket	
	Main switch	Set at "ON"	
	Electrical cord	Plug connections, damaged cord	
	Check if any safety jar is activated. Open the safety jar, clean & dry the jar and replace cap for re-use.		
Inadequate Suction Performance	Leak within the pump or in the external suction circuit	Isolate the source of trouble by carrying out the checks outlined.	
	External cause:		
	Push-in connector O-rings/Lid gasket	Condition	
	Push-in angular connectors	No Leaks at tube ends. Push in as far as stop.	
ıcti	Release Valve	The Knob should be tightly placed	
e St	Tubing	Cracks, brittle areas	
Inadequat	Lids	Airtight fit jars and Safety jar	
	Jars	Condition, Possible cracked edges, hairline cracks	
	Bacteria filter housing on (Safety jar top)	Condition and absence of leaks	
	Filter paper	Condition, position of housing	
Vacuum gauge indicates a vacuum Pump does not suck, however	Blockage or kink in tubing within the	Isolate source of trouble as follows:	
	pump or in the external suction circuit	Remove the safety jar from the pump, leave the	
		suction connection open. If the vacuum gauge	
		now indicates zero vacuum, the cause is external	
	External cause:		
	Bacteria filter, safety jar, overflow valve in the	Investigate the whole external suction circuit	
	lid, (float valve) push-in connectors, tubing etc.	for blockage (s), float valve sticking, kinked	
		tubing and rectify.	
		If the vacuum gauge still indicates a vacuum, the cause is internal	
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TERMS OF WARRANTY

Anand Medicaids Private Limited warranty the high quality and workmanship of each Anand's HI-VAC PLUSS (90 LTR) for a period of one year subsequent to the date of delivery by the company. During this period, faulty material will be replaced free of charge. This warranty does not extend to components that are subject to wear and tear in the course of normal operation or due to improper treatment/maintenance as per instructions. Further conditions in accordance with international standard IFC 601.1 item 6.8.2b.

The manufacturer is only responsible for effects on the safety, the reliability and the performance of the appliance if

- · Installation, additions, adjustments, modifications or repairs are carried out by personnel authorized by the manufacturer
- The electrical installations within the room concerned satisfy the requirements laid down by IEC.
- The appliance is used in full accordance with the instruction manual which is solely a guide and no substitute for professional training. The safe and effective use of this product largely depends on the skill of the operator. We are not liable for any damages due to mishandling or improper and unauthorised use.
- The company reserve the right to change technical specifications, designations and catalogue numbers without prior notice.

Note

Ensure that your electrical wirings are well earthed with 1 line and 1 neutral phase and your voltage is between 220V 230V. 50 Hz.

Ensure that the suction unit should not be lifted above human body level.

Dispose of used product/packaging in safe manner so as not to harm stray cattle, children and environment.

WARRANTY CARD

Model No.		Stamp:
SN		
Date of Purchase:		
Dealer Name:		
M ANAND ME	DICAIDS PRIVATE LIMITED	
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EC REP

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